Liquid Zest

User's Manual

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Acer Liquid Zest User's Manual
Model: T06
This revision: March 2016

Sign up for an Acer ID and enjoy great benefits

Open the *Acer Portal* app from the *Start* screen to sign up for an Acer ID or sign in if you already have an Acer ID.

There are three great reasons for you to get an Acer ID:

- Create your own connected world.
- Get the latest updates, offers, and product information.
- Register your device for quick, personalized customer support.

For more information, please visit the AcerCloud website:
www.acer.com/byoc-start

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Acer Liquid Zest smartphone
Model number: _____
Serial number: _____
Date of purchase: _____
Place of purchase: _____

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SETTING UP

Unpacking your phone

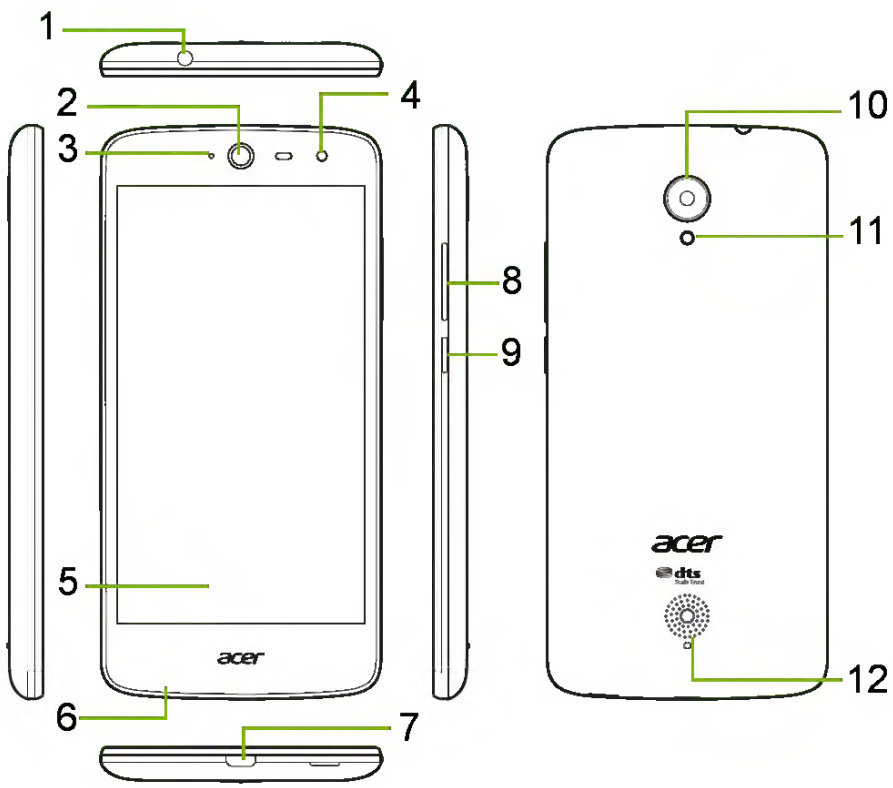
Your new phone comes packed in a protective box. Carefully unpack the box and remove the contents. If any of the following items is missing or damaged, contact your dealer immediately:

- Your new Acer smartphone
- USB cable
- AC adapter
- Headset

Note
In-box content varies depending on country and region.

Getting to know your phone

Views



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No.	Item	Description
1	3.5 mm headphone jack	Connects to stereo headphones.
2	Phone speaker	Emits audio from your phone; suitable for holding to your ear.
3	Status LED	Indicates a new message or the phone's power status.
4	Front-facing camera	For video calls or taking selfies.
5	Touchscreen	For viewing content from your phone or entering data.
6	Microphone	For picking up audio while making a phone calls.
7	Micro USB port	For connecting to a PC or a charger.
8	Volume up/down buttons	Increase or decrease the audio volume.
9	Power button	Turns the phone on or off.
10	Camera	A camera for taking high-resolution images.
11	Flash	LED flash for camera.
12	Handsfree speaker	Emits audio from your phone; suitable for making handsfree calls.

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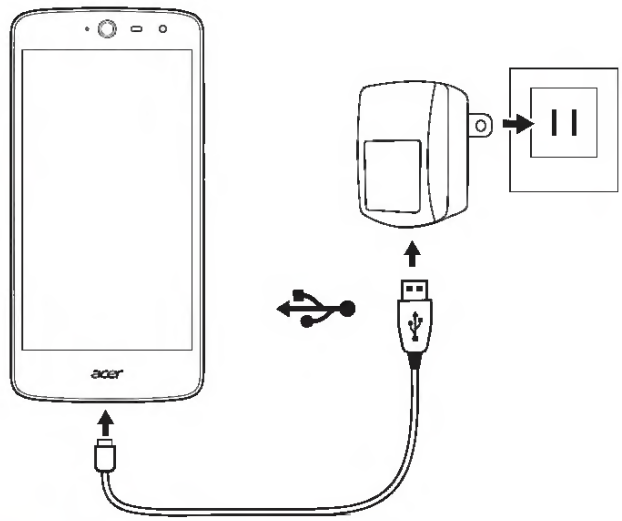
Charging the battery

For initial use, you need to charge your phone for eight hours. After that you can recharge the battery as needed.

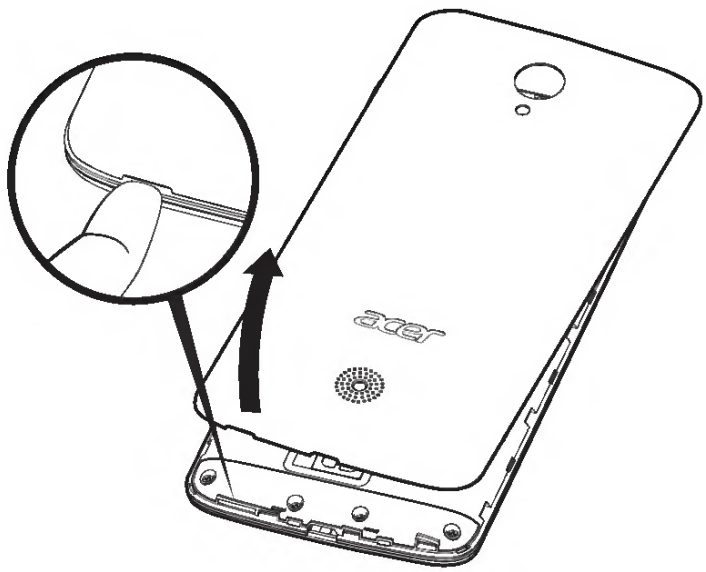
Connect the AC adapter cord to the USB connector on your phone.



Setting up for the first time

Inserting the SIM cards and microSD card

1. Turn off the phone by pressing and holding the power button.
2. Insert your fingernail into the notch located at the bottom of the phone and remove the cover.



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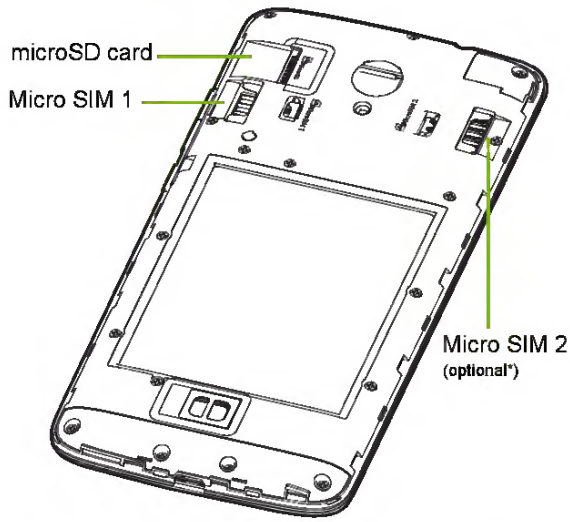
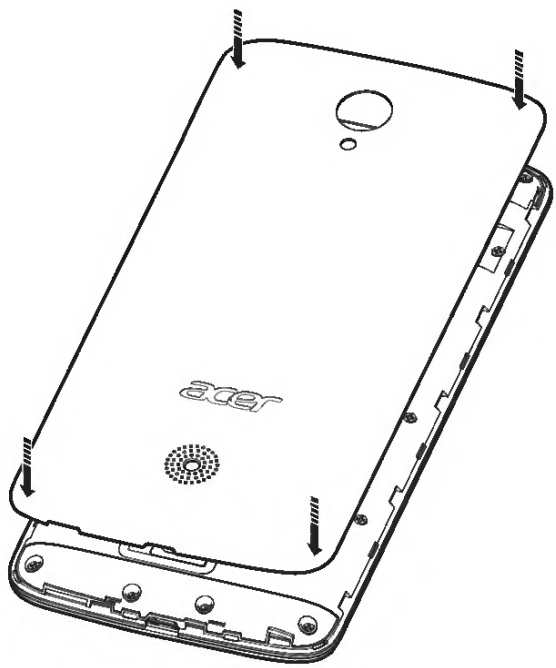
3. Insert the SIM and microSD cards as shown.



** Your phone may be equipped with one or two SIM slots depending on model.*

4. Replace the cover by aligning the tabs on the cover into the slots on the phone. Gently press the cover until it snaps in place.



SIM card lock

Your phone may come with a SIM card lock, i.e., you will only be able to use the SIM card provided by your network operator.

To cancel the SIM lock, contact your network provider.

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USING YOUR PHONE

Turning on for the first time

To turn on your phone for the first time, press and hold the power button until the screen turns on. You will then be asked to configure some settings before you can use your phone.

Follow the onscreen instructions to complete setup.

Sign in to or create a Google account

If you have internet access, your phone allows you to synchronize information with a Google account.

You may create or sign in to an existing Google account, which will be used to synchronize your contact list, email, calendar and other information. Open the *Apps list* and then tap **Settings** > **Accounts** > **Add account.** Tap the type of account you want to add (for example Google, Acer, or Acer BYOC). You will need internet access to complete the synchronization process. You can create and easily access multiple accounts from your phone, including multiple Google accounts.

Entering your PIN

When you install a SIM card for the first time, you may need to enter a PIN using the onscreen number pad.

Important

Depending on your settings, you may be required to enter your PIN each time you switch on the phone function.

Activating a new SIM card

If you are using your SIM card for the first time, it may require activation. Contact your network operator for details on how to do this.

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Locking your phone

If you will not use your phone for a while, briefly press the power button to lock access. This saves power and ensures your phone does not unintentionally use any services. Your phone will lock automatically if it is not used for one minute.

Waking your phone

If the screen is off and the phone does not react to any taps on the screen, then it has been locked and is in sleep mode.

Press the power button to wake your phone. Unlock your phone by sliding your finger upwards across the screen.

There are three icons at the bottom of the lock screen (from left to right): Voice search, lock, and camera. Place your finger on an icon and swipe upwards to unlock the screen and launch the associated app (if applicable) directly.

If there are notifications displayed on the lock screen, you can swipe downwards to view the notifications.

For additional security, you may set an unlock PIN, password or pattern, a set of dots that must be touched in the correct order to access the phone. Open the *Apps list* and then tap **Settings** > **Security** > **Screen lock**. If you forget your unlock pattern, please refer to **Security on page 55**.

Navigating through menus and options

To navigate through menus and options, there are three icons at the bottom of the screen.

Back

Tap this icon to go to the previous page, or to go up one level in a menu.

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Home

Tap this icon to go directly to the *Home screen*. Tap and hold this icon to open *Google Now* or *Search*.

Overview

Tap this icon to see recently opened apps in your phone's *Overview* screen. Tap an app to open it. Tap anywhere on the screen to return to the *Home screen*. **See Multitasking on page 19**.

Using the touchscreen

Your phone uses a touchscreen for selecting items and entering information. Use your finger to tap the screen.

Tap: Touch the screen once to open items and select options.

Swipe: Quickly swipe your finger across the screen to switch screens or open lists of options or information.

Drag: Hold your finger on the screen and drag across the screen to select text and images.

Tap and hold: Tap and hold an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

Scroll: To scroll up or down the screen, simply drag your finger up or down the screen in the direction that you want to scroll.

Onscreen keyboards

Note

The keyboard layout varies slightly, depending on the application and information that is required.

Google keyboard

This is a onscreen keyboard that allows you to enter text. Tap and hold a key with numbers at the top to select alternative characters, such as letters with accents.

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Tap the **?123** key to see numbers and special characters, and then tap the **=\<** key to see even more.

If you have set up more than one language, the world key ⊕ appears next to the space bar. Tap this key to quickly toggle between multiple input languages, or tap and hold the space bar to open the language/ keyboard selection window. The keyboard layout changes according to the selected language.

Predictive text

In most apps, Google keyboard provides predictive text input for the browser. As you tap the letters of a word, a selection of words are displayed above the keyboard that continue the sequence of letters tapped, or are a close match allowing for errors. The word list changes after every key press. If the word you need is displayed, tap on it to insert it into your text.

Text assistance

The Google keyboard has various features that assist you to enter correct text. In the *Apps list*, tap **Settings** > **Language & input.** Then tap **Google Keyboard** to see a list of settings you can adjust.

Adding an extra language

If you need to enter text in more than one language and/or alphabet you can add languages to the Google keyboard.

1. Tap **Settings** > **Language & input** > **Google Keyboard**.
2. Tap the toggle switch next to *Use system language* to turn it off.
3. Scroll through the list of available languages to select those that you wish to add to the keyboard by tapping the toggle switch to turn the languages on or off.

Changing the text input method

You can change the keyboard or language from *Settings* as follows.

1. Open the *Apps list*.
2. Tap **Settings** > **Language & input** then under *Keyboards & input methods* tap **Current Keyboard** > **CHOOSE KEYBOARDS**.

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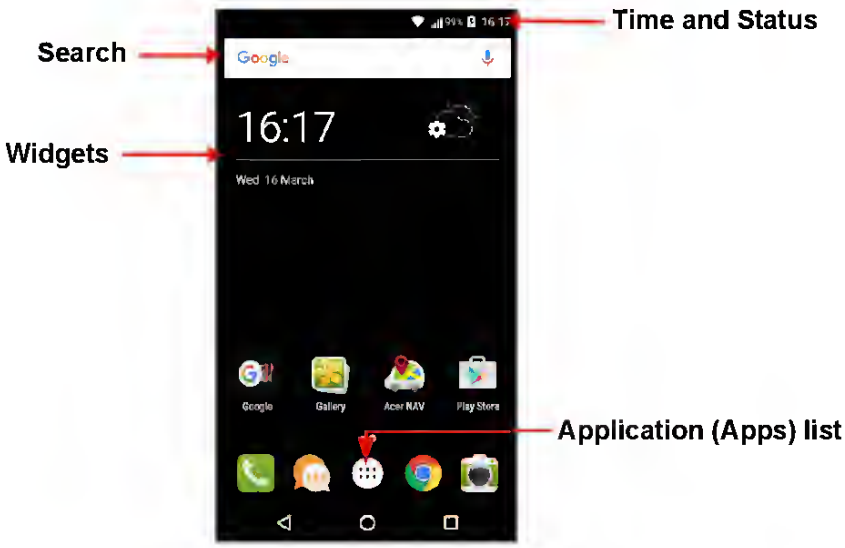
3. Toggle the switch next to the available keyboards to turn input methods or keyboards on or off, then tap *Back*.
4. If your preferred keyboard is not selected, tap **Current Keyboard** > *[preferred keyboard]* to set the default keyboard.

Alternatively, if you have already set up more than one language or installed multiple keyboards you can change the input method by tapping the *keyboard* icon at the bottom of the screen, and then tapping your preferred input method.

The *Home screen*

The *Home screen* gives you quick access to information and simple controls with widgets or shortcuts. These display information such as the time and weather, or provide additional controls and direct access to apps and other frequently used features of your phone.



At the bottom of the screen is the *Favorites tray* which displays default apps. Tap an icon to open the app. Tap the *Apps list* icon in the middle of the *Favorites tray* to view your apps. To change apps, **see Changing Favorites tray icons on page 17**.

Search

To search for apps, files or for information on the internet, tap the Google icon. Simply enter the text you want to find and tap or tap one of the suggestions, apps or files shown in the list.

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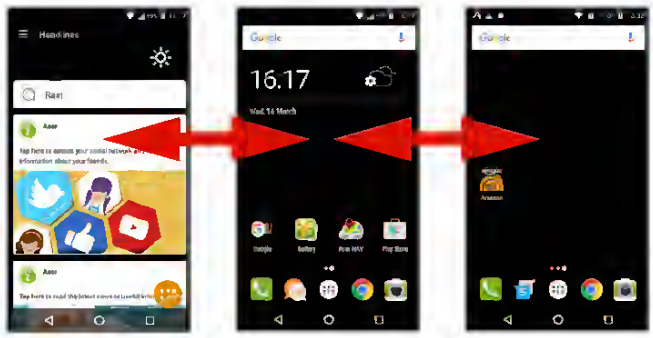
In order to search or browse the internet, you must be connected to a cellular data (if available) or wireless network. **See Going online on page 31**.

Voice search

If voice search is available, tap the microphone and speak your search request. **See Voice search on page 33**.

The extended *Home screen*

The *Home screen* extends to either side of the screen, giving you more room to add icons, widgets or features. To view the extended screen, slide your finger to the left or right.



Note

Extended screens to the right are only available if you have added content to the right of the Home screen.

Personalizing the *Home screen*

You may personalize your *Home screen* by adding or removing app shortcuts or widgets, and by changing the wallpaper.

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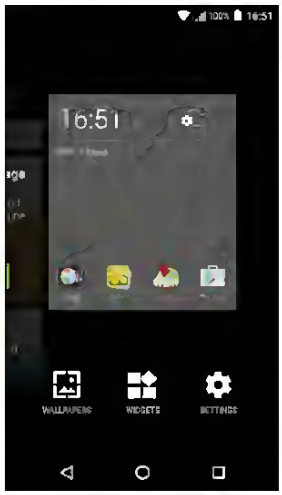
Adding shortcuts to the Home screen

To add app shortcuts to the *Home screen*, tap the *Apps list* icon in the bottom-center of the *Home screen*. Tap and hold the icon for the selected app. The *Apps list* will close and the *Home screen* will appear. Move the icon to the desired position on the *Home screen* and remove your finger.

Adding Widgets to the Home screen

Tap and hold any area of the *Home screen* that does not have an icon or Widget already. Tap **WIDGETS** to see small apps and links (such as custom shortcuts, contacts or bookmarks) that you can add to a *Home screen*. Widgets are small apps that display constantly-updated information or quick shortcuts to apps or special functions.



To move an app or widget to the *Home screen*, tap and hold an item until it is selected. The *Home screen* will open. Drag the item to any free area on the screen. To view information about the app or widget, drag it to the icon at the top of the screen.

To move the item to a different *Home screen*, drag it to the side of the screen, the *Home screen* will switch to the screen in that direction. Release the item when it is positioned correctly.

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Removing Widgets or shortcuts from the Home screen

To remove a shortcut or widget from the *Home screen*, tap and drag it to **Remove** at the top of the screen.

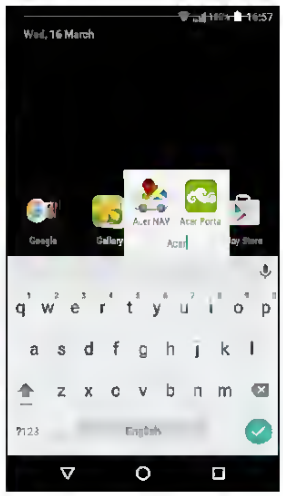
Resizing widgets

Some widgets can be resized. As soon as you place a widget on the *Home screen*, you can resize it by dragging the corners.

To resize a widget that is already on the *Home screen*, tap and hold the widget. Once the Remove icon appears, release the widget. If the widget is resizable, you will be able to drag the sides of the widget to resize it.

Adding or removing folders

You can also add folders to your *Home screen*. To create a new folder drag and drop an app icon onto another app icon in the *Home screen*. This will create an *Unnamed Folder*. Tap the folder icon and then tap the name of the folder to rename it.



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To delete an app shortcut from a folder, tap on the folder icon to display the apps inside and then tap and hold the app icon that you want to remove. Drag and drop the icon on **Remove** that will appear at the top of the screen.

To delete a folder, tap and hold on the folder and then drag and drop the folder on **Remove** that will appear at the top of the screen.

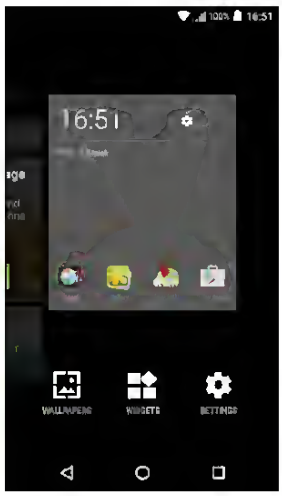
Changing Favorites tray *icons*

You can set icons for installed apps in the *Favorites tray*. Open the *Apps list* and find the app you want to add. Tap and hold the icon, then drag it to any open position in the *Favorites tray*. Dragging the new app to an existing *Favorites tray* icon will create a folder for both icons.

To remove an icon from the *Favorites tray*, tap and hold the icon to select it. Either drag the icon to a different location outside the *Favorites tray* or to **Remove** at the top of the screen.

Changing the wallpaper

Tap and hold any area of the *Home screen* that does not have an icon or Widget already, tap **WALLPAPERS**.



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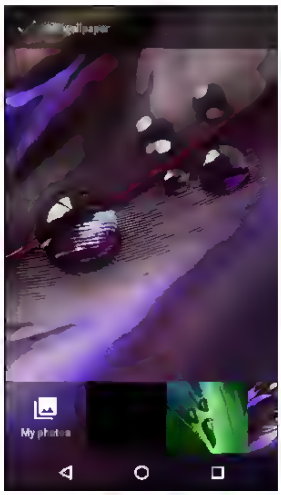
A selection of wallpapers are shown in a bar at the bottom of the screen; drag the bar left or right to see more options. If you wish to use a wallpaper other than those shown, tap **My Photos** in the lower-left corner and select and image from *Gallery* or *Photos*.

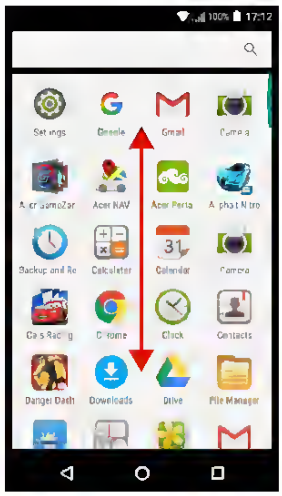
Tap on the thumbnail to select the wallpaper you wish to use, then tap **Set wallpaper**.



The *Apps list*

To access the *Apps list*, on the *Home screen* tap in the center of the *Favorites tray*.

Apps are displayed in alphabetical order, with the four most-recently used apps at the top of the menu. Swipe up or down to see the complete list of apps.



Notification and status area

Notification and status icons are shown at the top of the screen. The top-right area displays a variety of status information, such as Wi-Fi connectivity, signal strength, battery status, and time. The top-left area displays event icons, such as a new message.

- Single-SIM models:

- Dual-SIM models:

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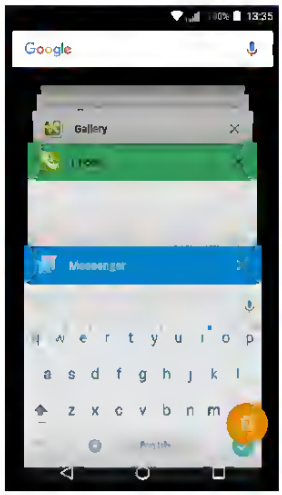
Swipe down from the *Notification bar* to display any notifications.

Swipe down twice or once with two fingers to open *Quick Settings*, which allows you to quickly adjust selected settings or turn features on or off.

Multitasking

You can have multiple apps open at the same time. To open a new app, tap the home icon to return to the *Home screen*, then start the new app. Tap the *Overview* icon to quickly navigate back and forth between previously-opened apps.



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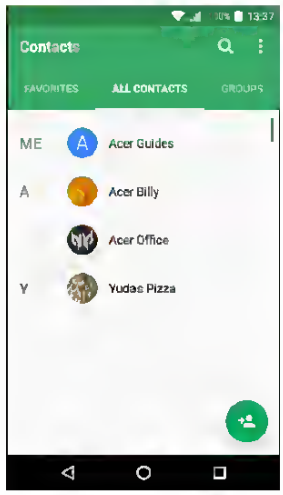
MANAGING CONTACTS

Managing your contacts



Your phone features an address book that allows you to save contacts to either the internal memory or onto your SIM card.

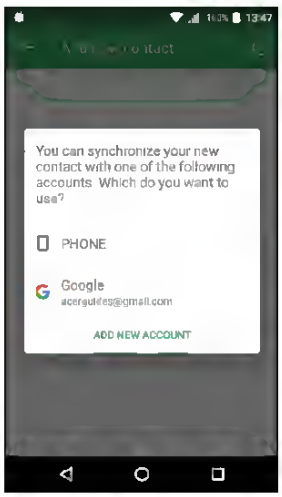
Tap the **Contacts** app from the *Apps list* or tap the *All contacts* icon from the *Dialer* to view your contacts.

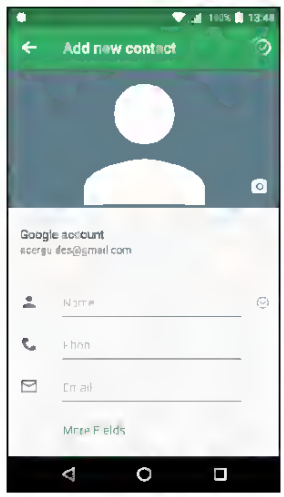
If you don't have any contacts stored on your phone, you can import your Google account contacts, add a new contact or import contacts from your SIM or SD card. Open the **People** app from the *Apps list* and then tap to add a contact, to search for a contact, or tap the *Menu* icon to open the menu.

Adding a contact

Tap to add a new contact. You may also scan a person's profile barcode to add the person to your contact list or group.

To create a contact, first choose where you want to store the contact's information. You will then be asked to enter the contact's information, such as name, phone number, and email.


You can synchronize your new contact with one of the following accounts. Which do you want to use?
PHONE
Google
ADD NEW ACCOUNT



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You may scroll down the page and tap **More fields** to add things such as:

- IM addresses.
- Add any personal notes about the contact.
- Phonetic name
- Link a website

To assign an image to your contact, tap the silhouette and select whether to take a photo or select an image from your phone's picture gallery.

When done, click the *Done* icon at the top of the screen.

Tapping on the contacts name will bring up their profile. Tap ⋮ while viewing a contact's profile to delete, share, or create a shortcut on the *Home screen* for the contact. Tap ✎ to edit the contact's details; tap ⋮ again for more options, where you may set a ringtone for the contact, send all incoming calls to voicemail, or add a contact picture.

You may also create a contact from an already dialed or received number, **see Saving a dialed number to contacts on page 26**.

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MAKING CALLS

This chapter shows you how to make phone calls, and the various options available to you during your call.

Before making a call

Check that the phone function is on before you make a call. You can confirm the phone status from the Notification area.

Note

Status and notification icon colors may vary. You will see an indicator icon for each SIM card inserted.

Icon	Description
	Connected to the network: You may make a call.
	Airplane mode: Wireless connectivity disconnected (Wi-Fi, Bluetooth, and cellular). Please disable airplane mode before trying to make a call.

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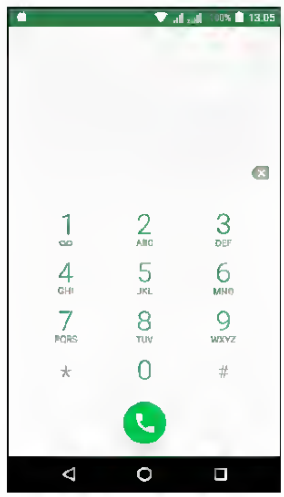
Making a call

Note

If you have multiple SIMs inserted in the phone, you may be asked which SIM to use before the call is connected. Depending on your SIM settings.
To select a SIM, just tap the name of the carrier.
See SIM Management on page 51.

1. From the *Home screen* tap **Phone** then ⋮⋮⋮ to open the onscreen number pad.
2. Enter the number you wish to dial.
3. Tap 📞 to make the call.
4. To end the call, tap 📞.

If the contact you need is displayed, simply tap the contact name to make a call.



Dialing a number from Call History

Your call history can be viewed by tapping the *Call History* 🕒 icon. It displays recent received, dialed, and missed calls.

Tap the phone icon to redial. To view call details and other options, tap the number or contact's name.

Viewing missed calls

Missed call notifications are displayed in the following three areas:

1. The Notification area with the missed call 📞 icon. Open the **Notification** area and tap the missed call notification to display the missed call details.
2. By the Phone icon (the number in the box is the number of missed calls). Tap **Phone** from either the *Home screen* or the *Apps list* to directly display the missed call details.

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3. On your phone's lock screen. Double-tap the notification to display the missed call details.

Making a call to one of your contacts

Calling a contact from the Contacts tab

1. Tap the **All contacts** to view your contacts.
2. Tap on a contact to call them.

Calling a contact from the Contacts app

1. Tap the **People** icon the *Apps list* to view your contacts.
2. Tap on a contact to open their profile.
3. Tap on the contact's phone number to call them.

Dialing an international number

When dialing international numbers, there is no need to enter the international direct dialing prefix ('00' etc.) before the country code. Simply tap and hold 0+ on the onscreen number pad until + appears onscreen.

Important

International call rates can vary greatly depending on the country you are calling and your network provider. We suggest you check all call rates with your network provider, to avoid excessive phone bills. If you are using your phone abroad, roaming charges will apply. Consult your network provider for roaming rates specific to the country you are visiting before you leave.

Direct dial widget

You may add a direct dial widget for a contact on your *Home screen*. Open the *Apps list*, then tap the **Widgets** tab. Tap and hold **Direct dial** and you will be able to place the widget on your *Home screen*. Once placed, you will be able to select a contact to associate with that particular widget on your *Home screen*.

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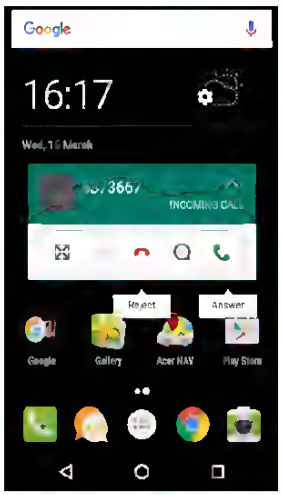
The voice call screen

You can minimize the call window to appear as a movable dialog instead of a whole screen by tapping the icon. You can even set this "floating" dialog box as the default voice call screen. To do so, open *Quick Settings* (see Notification and status area on page 18). Tap the **Float caller** icon to activate.



Answering or declining a call

When you have an incoming call, the number will be shown on the screen. To accept or decline the call, tap and hold the phone icon in the middle of the screen, then slide your finger across the screen towards one of the three icons that appear.

Ending a call

To end a call, tap from the voice call screen.

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Voice call options

Icon	Description
❙❙	Place the call on hold.
	Mute a call.
	Speakerphone.
	Access the keypad while a call is in progress.
⋮	One option: • Add a second call

Saving a dialed number to contacts

You can save a number you have dialed to your contacts for future use. From the *Call History* , tap the number and then tap **Create new contact** and enter the information. **See Adding a contact on page 20**. Alternatively you can tap **Add to a contact** to update an existing contact's information.

Conference calls

If you have one call on hold and another on line, you can combine both calls to create a conference call.

After the first call is established, tap to add a second call. Tap to start the conference call.

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TEXT AND MULTIMEDIA MESSAGES

This chapter shows you how to set up and use the *Messenging* app on your phone to send text (SMS) messages.

All SMS and MMS messages are accessed via *Messenging*. *Messenging* automatically arranges received and sent messages into threads.

To access *Messenging*, open the *Apps list* or tap **Messenging** on the *Home screen*.

Note

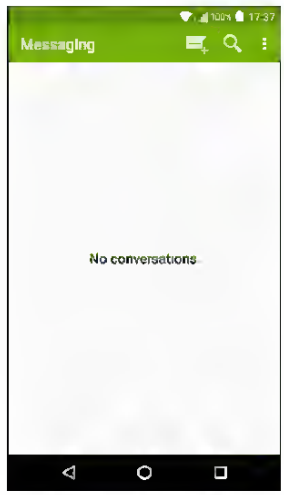
If you have multiple SIMs inserted in the phone, you will need to decide which SIM to use before sending the message. You will be able to see which SIM is the current SIM from the compose text box. To change SIM, tap and hold the send icon.

See SIM Management on page 51 *for more information.*

Creating a new message

You can use your phone to compose text (SMS) and multimedia (MMS) messages.

1. Tap to compose a new message.
2. Tap + to add contacts from your contacts list, or tap the **Type name or number** field to enter the recipient's phone number or name directly. Suggested contacts will be displayed in a drop-down list below the text field. To select a suggested contact, tap the contact's name.



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3. Enter your message in the text box labeled **Type text message**.

> **Note**
> *Text messages may be up to 160 characters long. If your message is longer than 160 characters, it will be sent as multiple linked messages. Most phones will automatically join the linked messages to present the recipient with a single long message, however, some older phones do not have this ability.*

Tap the menu button to see what options are available when creating a new message. The options change depending on the status of the message.

Option	Description
Add subject	Add a subject to the message.
Discard	Discard the message.
Settings	Additional settings for messages.

4. Tap the *Send* icon ➢ to send the message.

Replying to a message

When a new text message arrives a message icon appears in the Notification area and the message icon at the bottom of the phone displays the number of unread text messages.

Tap **Messaging** from the *Apps list* to view the message list or open the **Notification** area to see a summary of the message. Tap the summary to open the message list.

To reply to an SMS or MMS message, open the message from the message list. Enter your text in the text box labeled **Type message**. Tap the *Menu* button to see more options.

Option	Description
Add subject	Add a subject to the message.
Send	Send a reply to the message.
Delete thread	Delete the message.
Add to Contacts	Add the sender to your contacts list.
Chat settings	Additional settings for messages.

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Multimedia messages

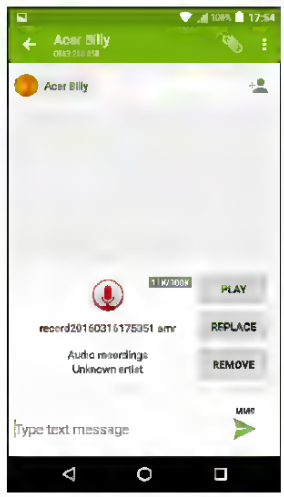
Multimedia messages are similar to text messages but also allow you to attach files such as pictures, audio or video clips. Each message can be up to 300 kB in size.

Note

You need to set up an MMS profile before you can send MMS messages. Normally, your phone will set up the profile automatically.
Ask your network provider for the necessary information if you need to manually set up the MMS profile.

Sending a multimedia message

Follow the instructions in **Creating a new message on page 27** to start a new message or reply to an existing SMS as described in **Replying to a message on page 28**.



1. To convert an SMS to a multimedia message, tap the *Add attachment* icon at the top of the screen.
2. This opens a list of attachment options. Select one to either find a file on your phone or create a new attachment.
3. Tap the *Send* icon to send the message.

Receiving multimedia messages

When a new multimedia message arrives, a message icon appears at the top of the screen and a notification message is displayed.

1. The notification message displays a summary of the message. Tap **View** to view a summary of the message.
2. Tap **Download** to download the message content. Downloads can take a long time, depending on your connection quality. If you reply or open another app, the download will be stopped.

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Important

You may be charged to download message content, especially if you are roaming. Please contact your provider if you have any questions.

3. Tap the message to view the content.
4. To reply to the message, enter your text in the text box labeled **Type message** and tap the Send icon ➤. Simple text replies will be sent as SMS messages. If you wish to attach a file, tap ⋮. You will be presented with a menu of options.
5. Tap the *Send* icon ➤ to send the message.

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GOING ONLINE

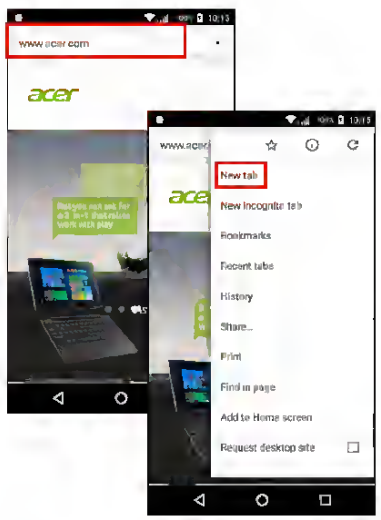
Browsing the internet

In order to browse the internet with your phone, you must be connected to a data or wireless network.

Using the browser

To start browsing, tap the **Chrome** icon in the *Favorites tray* or the *Apps list*.

Note
Reference images use the Chrome browser.



To open a new website, tap the address box at the top of the page. Enter the address using the keyboard and tap *Go* →. You can zoom in or out of pages by pinching or reverse pinching.

To navigate forward and backward in your browser's history, view your bookmarks, adjust browser settings, and perform other tasks, tap the *Menu* icon ⋮.

Chrome enables you to open multiple pages. By default, tabs are visible in the phone's *Overview* screen. Tap the *Overview* icon ☐ at the bottom of the screen to display all of your open tabs (tap again to close). Tap a tab from the list to open it. To open a new tab, tap the *Menu* icon ⋮ > **New tab**.

Setting up email

Your phone enables you to access your email through the *Gmail* app. If you sign in for the first time using a Gmail account, your information will automatically be used to create your Inbox on your phone.

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To add another account, open **Settings** from the *Apps list*, then tap **Accounts** > **Add account** > *[account type]*.

Enter the email address for the new account. If you have selected the wrong account type, you will be asked to confirm which account type to use.

Enter the password for the account and, if necessary, grant the *Gmail* app permission to access your account.

Most popular ISPs can be set up in just a few steps. If you are unable to set up the account automatically, enter your email address and tap **Manual setup** to enter the parameters manually. Tap **Next** to finish the setup process.

Google services

Note
Apps may not be available in all countries and regions.

You must activate a Google account before using Google services. The first time you access Google services, you must read and accept the Terms of Service.

Setting up your Google email

1. Make sure your phone is connected to a data or Wi-Fi connection.
2. From the *Apps list* tap **Gmail**.

If you did not enter your Gmail account address and password when you first started your phone, follow the onscreen instructions.

Composing an email

1. Make sure your phone is connected to a data or Wi-Fi connection.
2. From the *Apps list* tap **Gmail**.
3. Tap ✎.
4. Enter the recipient's email address, the subject and message.
5. When you are finished composing your message, tap ➤.

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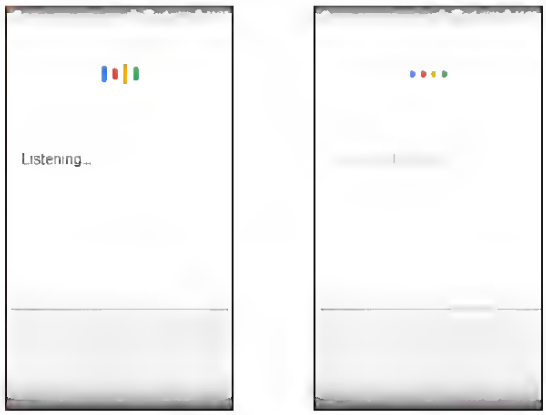
Voice search

With voice actions, you can send text messages, place calls, send emails, find directions of establishments, automatically call establishments, search the internet and even send a note to yourself using your voice. Tap **Voice Search** from the *Apps list*, or tap the *microphone* icon on the *Home screen*.

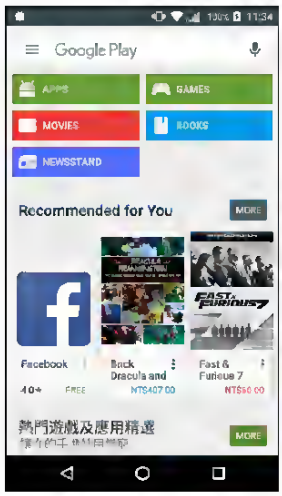


Play Store

Important

For connection issues with Play Store, see FAQ and troubleshooting on page 53.

Tap **Play Store** from the *Apps list* to open the *Google Play* app. Here you can obtain a variety of apps to enhance your phone.



The contents and design of *Google Play* varies by region. For example, in some regions, you can also browse for and purchase movies, books, magazines, or music. Updates may add new categories or change how to navigate *Google Play* at any time.

You can browse the store by category or tap the search icon to search for a specific app.

Once you have selected an app, tap **Install** to download and install the app. You will be told which services the app requires access in order to function correctly (e.g. contact information, wireless

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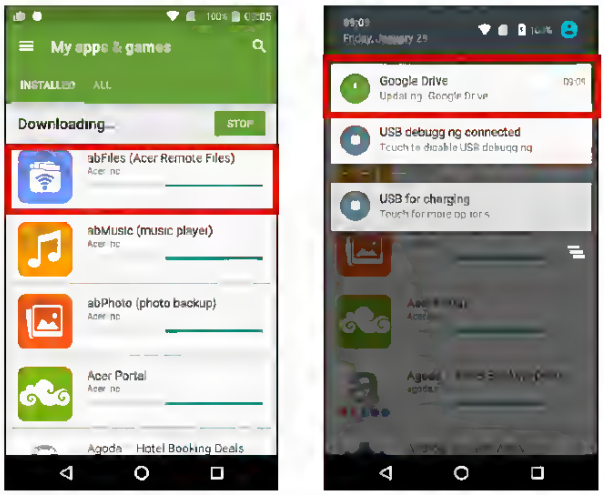
access, GPS). If none of these services seem unusual, tap **Accept & download** to proceed with the installation.

You may keep track of the download progress from both the app's page and the notification area.



Important

Some apps may require payment before you can download them. You will need to have a Google Wallet account in order to pay for these apps, or a credit card number associated with your Google account.

Using downloaded apps

Once you've downloaded and installed an app, you may find it in the *Apps list* or *Widgets* list.

Certain apps provide both an App and widget, or only provide a widget (with no app icon). **See Personalizing the Home screen on page 14**.

Uninstalling downloaded apps

Once you've downloaded and installed an app, you may uninstall the app by opening the *Apps list* and tapping **Settings** > **Apps**. Scroll through the list of apps and select the the app you wish to uninstall. Tap **UNINSTALL**.

Note

Deleting an app icon from the Home screen only deletes the shortcut.

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Google Hangouts

Tap **Hangouts** from the *Apps list* to open *Google Hangouts*. Here you can see a list of your contacts connected to *Google Hangouts* services. Tap on a contact to open a chat session. After you have connected, you can open a video chat session.

Maps, Navigation, Places and Latitude

Get easy-to-follow directions using *Google Maps*, view real-time traffic condition and navigate by using spoken, turn-by-turn driving instructions. Also, view where your friends are, places of interest, and local businesses.

Note
Maps does not have information about every location.
Some locations may not have all zoom levels.

Using the map

Tap the **Maps** icon in the *Apps list*. Drag the map with your finger to move the map around.

To zoom in or out:

1. Double-tap a location on the map to zoom in on the location, and tap once to zoom out, or
2. Touch an area with two fingers at once and spread them apart to zoom in, and pinch them together to zoom out.

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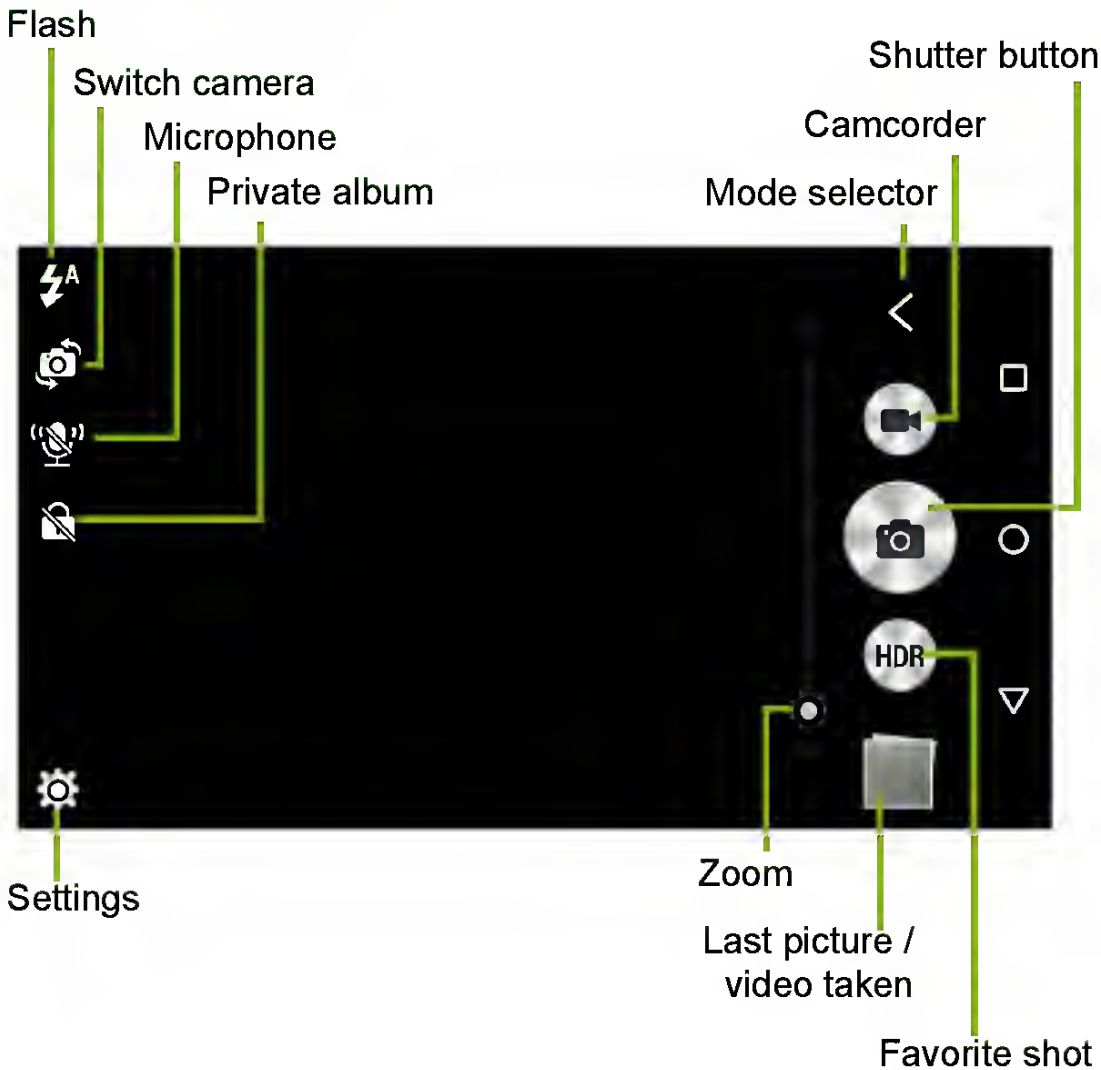
USING THE CAMERA

Your phone features two digital cameras mounted on the front and on the rear. This section will take you through all the steps in taking photos and videos with your phone.

To activate the camera, open **Camera** from the *Apps list* or the *Favorites tray*.

Icons and indicators



The camera window provides multiple controls on the image screen. Tap the **Shutter** button or press the **volume** key to take a picture. Tap the thumbnail image to open the gallery.

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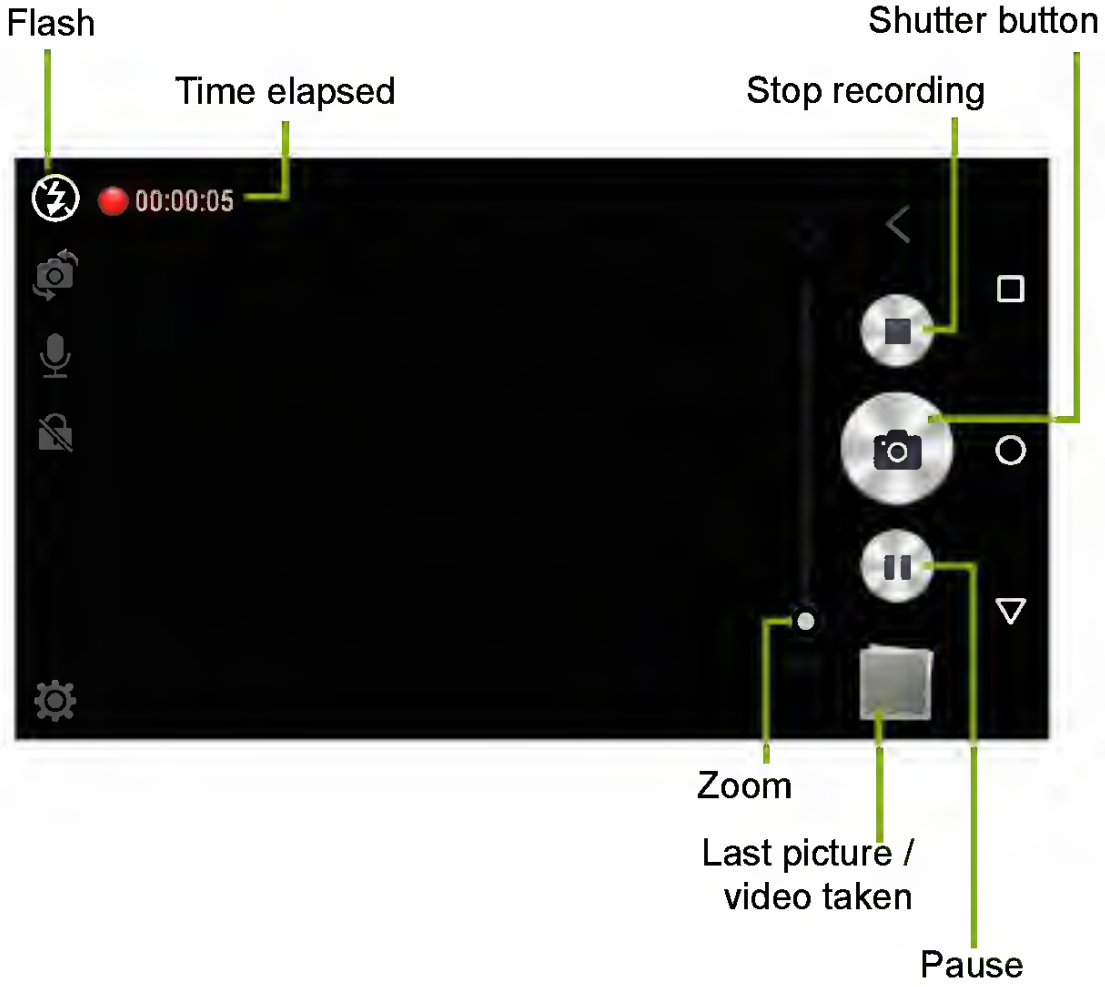
Tap the *Camcorder* button and the camcorder immediately begins filming. While filming, you are unable to access camera/camcorder settings; however, you can turn the flash on for illumination and still take pictures with the *Shutter* button.



Tap the *Stop recording* button to stop filming.

Private album

You may store photos (but not videos) in a password-protected *Private Album*. Photos will be stored in your phone's internal storage and may only be accessed through the *Camera* or *Gallery* apps. Tap the icon to set up a password and link a Google account so photos may be recovered should you lose the password.

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Mode Selector

Tap the *Mode selector* icon to open the list of modes you can choose from. Tap the icons along the top to select different items.

Camera

Capture mode: Select a capture mode.

Normal	Beautification
HDR	Smile Shutter
Panorama	Gourmet

Scene mode: Adjust photo parameters for a particular environment.

Off	Night Portrait
Landscape	Portrait
Night	

Color effect: Applies a color effect to the image.

None	Negative
Mono	Aqua
Sepia	

Camcorder

The camcorder's scene mode changes depending on the record mode setting (see table below).

Record mode:

Normal	Time lapse

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Scene mode:

Off	Night

Effect:

None	Negative
Mono	Aqua
Sepia	

White balance

Compensate for different lighting environments.

Auto	Florescent lamp
Daylight	Incandescent
Cloudy	

Image properties

Adjust the *Brightness*, *Contrast, Saturation, and Sharpness*.

Self-timer

Set a delay before the shutter is activated.

Settings menu

Note
Some of the following settings are not available for the front camera.

Tap the *Settings* icon to open the *Settings* menu.

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Photo

You may adjust the following:

- Set the **Resolution** and **aspect ratio**.
- Set the **ISO** value.
- Set the default **Favorite shot** mode.
- Turn **Continuous Shot** on or off: Tap and hold the shutter button for continuous images.
- Turn **Touch to Capture** on or off: Touch anywhere on screen to take a picture.
- Turn the onscreen **Grid** on or off.

Video

You may adjust the following:

- Turn **Video stabilizer** on or off.
- Set the video **Resolution**.
- Turn **Audio Mode** to *Normal* or *Mute*.
- Turn **Noise Reduction** on or off.

Other

You may adjust the following:

- Turn **Location** info on or off: Stores GPS information in the image information.
- Turn **Voice Control** on or off.
- Choose which **Storage** to use: Save photos and videos in *Internal storage* or to an *SD card*.
- Choose to **Reset to default** camera settings.

Taking a photo

1. Ensure you have adjusted the settings described above.
2. Frame your subject and steady your phone.
3. Zoom in or out as needed.
4. Tap the **Shutter** button to take a picture.

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Shooting a video

1. Frame your subject and steady your phone and zoom in or out as needed.
2. Tap the **Camcorder** button to start taking a video. Tap the **Pause** or **Stop recording** buttons.

Supported formats

Note
To see supported image, video, and audio formats, **see Connectivity on page 61**.

Viewing photos and videos

After you have taken your photo or video, it is automatically saved. Once you have taken a photo or video, you can view it in *Gallery* by tapping the thumbnail in the corner of the image screen. Alternatively, open the *Apps list* and tap **Gallery**. From *Gallery* you can share the file directly using various services. Services vary depending on the file type.

You may also edit individual photos you have taken by tapping the pencil icon in the lower left-hand corner of the image.

Geotagging

Geotagging allows you to store the location where a photo or video was taken right in the photo or video itself.

For the geotag to display, pictures must be taken with GPS **Location** turned on.

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ADVANCED SETTINGS

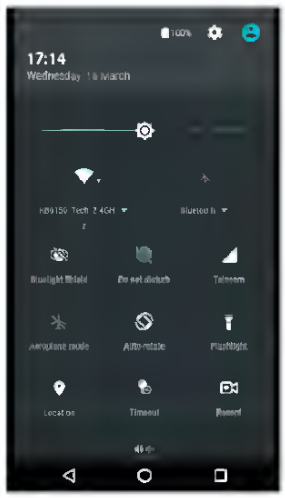
Putting your phone in Airplane mode

You can enable Airplane mode (also known as flight mode) to turn off cellular, Wi-Fi and Bluetooth functions and use your phone as a handheld device during a flight. Check with your airline to make sure this is permitted onboard.

Switch your phone off during takeoff and landing as it may interfere with aircraft electronic systems.

Turning Airplane mode on or off

Open *Quick Settings* and tap Airplane mode.



Restarting your phone

You can restart ('reboot') your phone if you find apps are not responding.

1. Press and hold the power button until you get the phone options menu.
2. Tap **Restart**.

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Adjusting settings

Wireless & networks (managing connections)

Open the *Apps list* and tap **Settings** to manage your connection settings.

Item	Description
Wi-Fi	Turn the Wi-Fi function on or off.
Bluetooth	Turn the Bluetooth function on or off.
SIM cards	Set a default SIM for particular functions (such as voice calling or messaging), turn the data connection on or off, set roaming preferences and associate contacts with a SIM.
Data usage	View an estimate of the mobile data used for each SIM.
Call Settings	Change various settings related to making and receiving calls.
More...	Access additional connection settings: **Airplane mode**: Disable all wireless connections so you can safely use this device onboard an aircraft. **SMS app**: Set the app used to send and receive SMS. **Tethering & portable hotspot**: Share your phone's mobile data connection via USB or as a portable Wi-Fi hotspot. **VPN**: Set up and manage Virtual Private Networks. **Cellular/Mobile networks**: Set your options for connecting to cellular networks. **Cell broadcasts**: View active alerts for your area.

If your phone is in Airplane mode, the option to turn Bluetooth on will be disabled. Please refer to **Putting your phone in Airplane mode on page 42** for instructions on turning Airplane mode on or off.

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Adjusting Bluetooth settings

You can use Bluetooth to exchange information between your phone and other mobile devices.

Bluetooth connections

For all Bluetooth settings, open the *Apps list* and tap **Settings > Bluetooth**. Tap the toggle switch next to turn Bluetooth on or off. When you turn Bluetooth on, your phone will automatically search for any nearby devices that are discoverable. Your phone will be discoverable as long as you have the Bluetooth settings open.

To connect to a device, tap the device in the list of available devices. You may be asked to enter a PIN on both devices to establish the connection.

To simply turn on or off Bluetooth, open the **Notification** area and tap the **Bluetooth** icon.

Internet sharing

Tethering via USB

If you wish to share your mobile internet connection with a computer, you can connect your phone to a PC using the supplied USB cable.

1. Plug the USB sync cable into the USB connector on your phone.
2. Plug the USB client connector into an available USB port on your computer.
3. Open **Settings** > **More..** > **Tethering & portable hotspot** > **USB tethering** to turn USB internet sharing on or off.

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Wi-Fi hotspot

You can turn your phone into a portable Wi-Fi hotspot to share your mobile internet connection with up to eight clients.

1. Open **Settings** > **More...** > **Tethering & portable hotspot** > **Portable Wi-Fi hotspot**.
2. Tap **Set up Wi-Fi hotspot**, and change the *Network name*, security, and password as necessary. Tap **SAVE** to finish.

Note

When your phone is serving as a Wi-Fi hotspot, you can only access the internet via your phone's data connection, and you may incur data charges.

Phone network settings

In the *Apps list* tap **Settings** > **More...** > **Cellular networks** to adjust your network settings. You can turn data connection on or off when roaming, choose a preferred network type, specify a network operator and define access point names.

Selecting a network

Your phone will automatically detect your carrier/network settings when you insert a new SIM card. However, you may prefer to manually select a network when roaming.

Note

When you are traveling, manually selecting a network may help to reduce your roaming charges. Check with your home service provider for the network offering the most competitive rates at your destination.

1. Open the *Apps list* and tap **Settings** > **More...** > **Cellular networks** > **Network operators** > **Search networks**.
2. Your phone will search for available networks.
3. Select your preferred network from the list generated. You phone will attempt to register on the selected network.

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4. Tap **Select automatically** to connect to the available network with the strongest signal. This may lead to your phone jumping between networks when you move around.

Note

Contact your service provider should you have any problems obtaining voice mail and the text message service center numbers.

Data usage control settings

Data usage controls let you monitor total usage by network type and app and then set limits if needed.

Ensure Wi-Fi or mobile data is enabled before setting a limit. Access data usage settings from the *Apps list* by tapping **Settings** > **Data usage**. Tap **Set cellular data limit** to set a threshold at which your data connection will automatically be disabled.

Important

Your phone and your cellular carrier may calculate data usage using different criteria. Your carrier will charge you according to their methods: Please consider setting a conservative limit.

Phone settings

Many phone settings are automatically configured by your phone when you insert a SIM card. The device will communicate with your provider and automatically obtain all necessary settings, such as network name, voice mail and text message center numbers.

You can also view and modify these settings manually through the Call settings screen.

Open **Settings** > **Call settings**.

Adjusting the volume

Adjust the volume of your phone using the volume button on the side of the phone. Alternatively, you can set the Ringtone, Notifications, and Alarms volume by opening **Settings** > **Sound & notification** and then adjusting the sliders under *Sound*.

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Display

To adjust your phone's display settings, in the *Apps list* tap **Settings** > **Display**.

You can also adjust the screen brightness, turn casting or screen rotation on or off from *Quick Settings*.

Setting the date and time

To set the date and time, open **Settings** > **Date & time**.

If you travel frequently or live in an area that uses daylight saving time, tap **Automatic date & time** and **Automatic time zone** to turn them both on. This will enable your phone to set the date and time based on information it receives from the network.

Setting alarms

There are two predefined alarms on your phone by default. Open **Clock** from the *Apps list*, and then tap ⏰ to view the alarms. Tap and hold an alarm to change its settings. You may:

- Turn the alarm on or off.
- Set the alarm time.
- Set which days to repeat the alarm.
- Set a ringtone.
- Enable or disable vibrate.
- Give it a label.

Changing language and text options

Set your location and language input preferences by opening **Settings** > **Language & input**.

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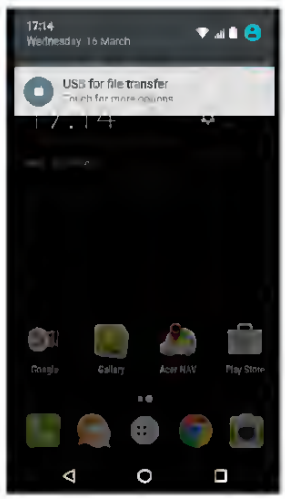
Connecting to a PC



If you wish to transfer information between your device and your computer (either the microSD card in your device or the device's internal memory), you can connect your device to a PC using the supplied USB cable.

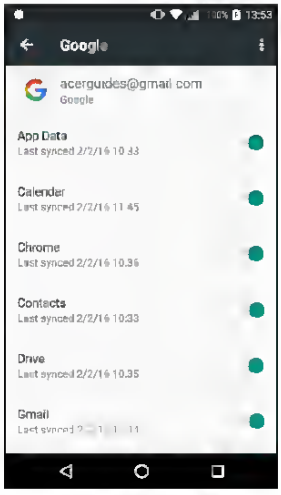
1. Plug the USB sync cable into the USB connector on your phone.
2. Plug the USB client connector into an available USB port on your computer.
3. Open the notification area and tap **USB for charging** then choose **File transfers**.

Your device will now be available as a drive in your computer's file explorer.

Note

After turning on USB storage, you will not be able to access the files in the microSD card or apps such as Gallery or Music.

Synchronization



You can sync your calendar, email and contacts on your phone and never worry about losing them again. Sync in real time or adjust it as you please. Open **Settings** > **Accounts** > *[account name]* to access the synchronization settings.

To add a new account, tap **Add account**. Select the type of account and then follow the onscreen instructions.

Google Sync

In Google, you can set synchronization for Google services. In your Google account's synchronization settings menu, tap the item you would like to have auto-sync. Tap again for manual synchronization.

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To manually synchronize an item, make sure toggle switch next to the item is turned on, tap the **Menu** icon ⋮ and then tap **Sync now**.

Note
You need a Google account to sync your calendar and appointments.

Apps (applications)

Uninstalling an app

You can remove programs installed on your phone to free up extra storage memory. From the Apps list, tap and hold the app you wish to uninstall, and then drag it to "Uninstall" at the top of the screen. You will be asked to confirm the uninstall; tap **OK**.

Important
Can only uninstall apps that you have downloaded from Play Store.

Restoring to factory settings

You may perform a clean boot to restore your phone to the factory settings. Before performing a clean boot, ensure that your phone is not locked. Press any button or tap the screen to see if the phone responds.

Important
You should only perform a clean boot when all other options have failed to restore your phone to an operational state.
This will erase all your personal information, any contacts stored on your phone and any programs you installed.

If your phone is responding to screen input, then open **Settings** from the *Apps list*. Tap **Backup & reset** > **Factory data reset** > **Reset phone** and then **Erase everything** to format your phone.

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ACCESSORIES AND TIPS

This chapter shows you how to use accessories with your phone, as well as provide useful tips for when you are using your phone.

Using the headset

Your phone is compatible with headsets with built-in microphone for handsfree use when making calls.

To use the headset, plug it into the 3.5 mm headphone jack at the top of the phone.

When the headset is plugged in, all audio is routed to the headset, and the speakers are turned off.

- To answer an incoming call, press the button on the microphone.
- Adjust the volume using the volume up/down button on the phone.
- End the call by pressing the button again.

Using a Bluetooth headset

Your phone's Bluetooth functions make it fully compatible with all Bluetooth headsets. This allows you to use the unit handsfree when making calls, without the inconvenience of wires.

Creating a new access point

When you need to add another cellular connection on your phone, obtain the access point name and settings (including username and password if required) from your wireless service provider.

1. Open the *Apps list* and tap **Settings** > **More...** > **Cellular networks** > **Access Point Names**, and select an operator.
2. Tap the *Add* icon ⊕ and then enter the APN settings. Tap an item to adjust it.
3. When you have finished tap the *Menu* icon ⋮ and then tap **Save**.

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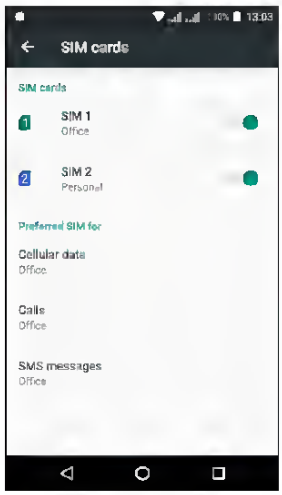
MANAGING YOUR SIM CARDS

Note
This chapter is for models with more than one SIM card.

SIM Management

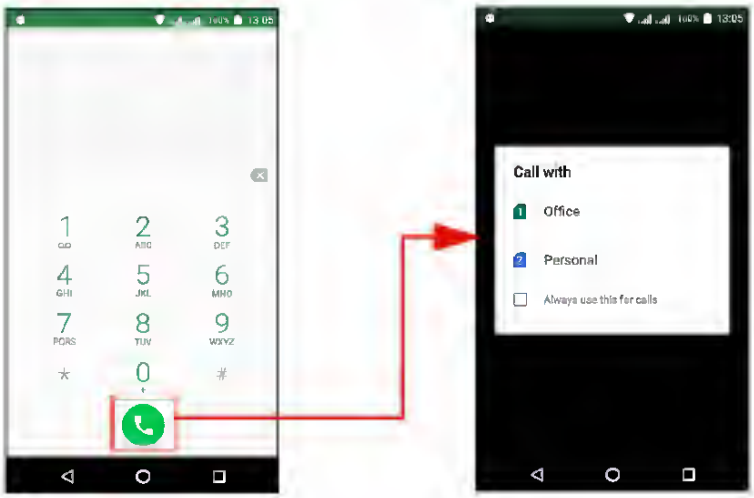
Open the *Apps list* and tap **Settings** > **SIM cards**. From this screen, you can:

1. Enable or disable each SIM.
2. Configure each SIM's name, phone number, display numbers, and assign a color to each SIM (allowing you to quickly and easily recognize which SIM is active).
3. Set the default SIM for *voice calls*, *data connection*, and *cellular service*.
4. General settings for each SIM.



Selecting which SIM to use when making a call

If you have set *Voice call* to **Always ask**, you will be asked which SIM to use each time you make call. Enter the number, then tap . A dialog opens; tap the SIM to use and the call will be connected.



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Identifying calls

Whenever you receive a call, the caller's number will be shown using the color defined for the SIM that the call is being received on. You will also be shown the name of the SIM receiving the call.

In the call log, the name of the SIM will be shown beneath the number of the call -- whether the call was missed, answered or was an outgoing call -- in the color you defined for that SIM.

Limitations when using multiple SIMs

When a SIM is:	Other SIM cannot:
In a call	Dial out
Ringing	Receive a call (caller will get a "number not available" message)
Sending or receiving a message	Send or receive a message
Using a data connection	Use a data connection

Note

If you are using data on one SIM and you make or receive a call, or send or receive a text message on another SIM, the first SIM's data connection will be temporarily halted.

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APPENDIX

FAQ and troubleshooting

This section lists frequently asked questions that may arise during the use of your phone, and gives easy answers and solutions to these questions.

Audio

Question	Suggestions
Why is there no sound coming from the device?	If the headset is plugged into the device, the speaker is automatically shut off. Disconnect the headset. Check that the device volume setting is not muted. Check that the volume control is not at its lowest setting.

Multimedia files

Question	Suggestions
Why can't I view my picture files?	You may be trying to view an image that is not supported. **See Connectivity on page 61**.
Why can't I view my video files?	You may be trying to view a video that is not supported. **See Connectivity on page 61**.
Why can't I play my music files?	You may be trying to play a file that is not supported. **See Connectivity on page 61**.

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Google Play Store

Question	Suggestions
Why can't I connect to the Play Store?	1. First check that you have a Wi-Fi or data connection (some Wi-Fi "hotspots" require you to log in before accessing the internet) and then try again. 2. If you still cannot connect, try adjusting your date/time settings. Open **Settings** > **Date & time** and turn **Automatic date & time** off. 3. Manually adjust the time and then try to reconnect to the Play Store.

System information and performance

Question	Suggestions
How do I check the OS version of my device?	Tap **Settings** > **About phone** to check the OS version (Build number) and other hardware and software information.

Power

Question	Suggestions
I can't turn on the device.	The battery power may be depleted. Recharge the device. **See Charging the battery on page 7** for more information.

RAM / ROM

Question	Suggestions
How do I check the RAM and ROM memory status?	To check the ROM status, tap **Settings** > **Storage & USB**.

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Internal storage

Question	Suggestions
My device's available internal storage is full or almost full.	Uninstall apps to increase available storage. See Uninstalling an app on page 49.

Security

Question	Suggestions
I forgot my unlock pattern.	After a certain number of wrong entries, you will be presented with an option to reset your pattern. Tap **Forgot pattern?** and enter your Google account username and password. *You must have an active Google account on the phone.* *Alternatively, you restore your phone to factory settings.* See Restoring to factory settings on page 49.

Temperature

Question	Suggestions
The phone heats up when charging or making long duration calls.	It is normal for the phone to heat up when charging. When charging is complete, it will return to its normal temperature. It is also normal for the phone to heat up during long periods of use, such as watching a video or a long phone conversation.

Other sources of help

For information on	Refer to ...
Up-to-date information regarding your phone	www.acer.com mobile.acer.com
Service enquiries	www.acer.com/support

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WARNINGS AND PRECAUTIONS

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use this product when engaging in sporting activities, exercising, or in any vibrating environment which may cause a short circuit or damage, and even a risk of explosion from the battery pack.

Protecting your hearing

To protect your hearing, follow these instructions.

- Increase the volume gradually until you can hear clearly and comfortably.
- Do not increase the volume level after your ears have adjusted.
- Do not listen to music at high volumes for extended periods.
- Do not increase the volume to block out noisy surroundings.
- Decrease the volume if you can't hear people speaking near you.

Additional safety information

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

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Operating environment

Important

For safety reasons, turn off all wireless or radio transmitting devices when using your phone device under the following conditions. These devices may include, but are not limited to: Wireless LAN (WLAN), Bluetooth and/or cellular.

Remember to follow any special regulations in force in any area, and always switch off your device when its use is prohibited or when it may cause interference or danger. Use the device only in its normal operating positions. To successfully transmit data files or messages, this device requires a good quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure that the above separation distance instructions are followed until the transmission is completed. Parts of the device are magnetic. Metallic materials may be attracted to the device, and persons with hearing aids should not hold the device to the ear with the hearing aid. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Medical devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF transmissions.

Pacemakers. Pacemaker manufacturers recommend that a minimum separation of 15.3 cm (6") be maintained between wireless devices and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should do the following:

- Always keep the device more than 15.3 cm (6") from the pacemaker.

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- Not carry the device near your pacemaker when the device is switched on. If you suspect interference, switch off your device, and move it.

Hearing aids. Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic anti-skid (anti-lock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added. Only qualified personnel should service the device, or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed, and the air bag inflates, serious injury could result. Using your device while flying in aircraft is prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refueling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots,

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storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmospheres are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

Follow any restrictions. Do not use the device where blasting is in progress.

Emergency calls

Important

Wireless phones, including this device, operate using radio signals, wireless networks, landline networks, and user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this guide or your service provider for more information.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

Taking care of your phone

1. **DO** take care not to scratch the screen of your phone. Keep the screen clean. When working with your phone, use your finger or fingernail. Never use an actual pen or pencil or other sharp object on the screen surface.
2. **DO NOT** expose your phone to rain or moisture. Do not let water enter the circuitry. In general, treat your phone as you would any other small electronic device.
3. **DO** be careful not to drop your phone or subject it to any strong impact. Do not place your phone in your back pocket.

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4. **DO NOT** expose your phone to extreme temperatures. For example, do not leave your phone on the dashboard of a car on a hot day or when temperatures are below freezing point. Also, keep it away from heaters and other sources of heat.
5. **DO NOT** use or store your phone in any location that is dusty, damp or wet.
6. **DO** use a soft, damp cloth to clean your phone. If the surface of the screen becomes soiled, clean it with a soft cloth moistened with diluted window-cleaning solution.
7. **DO NOT** press down on the screen with force, otherwise you may crack the screen.

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SPECIFICATIONS

Note
Specifications may vary depending on region and configuration.

Performance

- Quad-core processor (MT6580 1.3 GHz)
- System memory:
  - 1 or 2 GB of RAM
  - 8 or 16 GB of ROM
- Android operating system

Display

- 5" IPS LCD, capacitive touchscreen
- 720 x 1280 HD resolution

Dimensions

Height	145.7 mm
Width	71.2 mm
Thickness	8.4 mm
Weight	<150 g (with battery)

Connectivity

Note
Frequencies and bands supported vary depending on model.

- Bluetooth 4.0 + LE
- IEEE 802.11b/g/n
- HSPA+/WCDMA:
  - 2100 MHz (Band 1); 1900 MHz (Band 2); 900 MHz (Band 8); 850 MHz (Band 5); AWS (Band 4)

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- GSM/GPRS/EDGE:
  - 1900 MHz; 1800 MHz; 900 MHz; 850 MHz
- HSDPA up to 21 Mbps, HSUPA up to 5.76 Mbps
- GPRS Class 12 / EDGE Class 12
- GPS, with aGPS support and SUPL

Expansion

- microSD memory card slot (up to 32 GB; SDHC 2.0 compatible)
- Micro USB connector

Camera

- 8 MP rear camera
  - Auto-focus
  - LED flash
- 5 MP front camera
  - Fixed focus

Power

- Adapter
  - AC input: 100 to 240 V, 50 or 60 Hz
  - DC output: 5 V, 1 A
  - Micro USB connector
- 2000 mAh nominal-rated Lithium-ion battery (not user-replaceable)

Note

Length of battery operation will depend on power consumption which is based on system resource use. For example, constantly using the backlight or using power-demanding apps will shorten battery life between charges.

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Multimedia

Formats supported:

Type	Formats
Image	JPEG, GIF, PNG, BMP
Audio playback	MP3, AMR, AAC LC, AAC+, eAAC+, Vorbis, FLAC, MIDI, WAVE
Ringtone	MP3, AMR, AAC LC, AAC+, eAAC+, Vorbis, FLAC, MIDI, WAVE
Video recording	H.263, H.264, MPEG4
Video playback	H.263, H.264, MPEG4, VP8

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